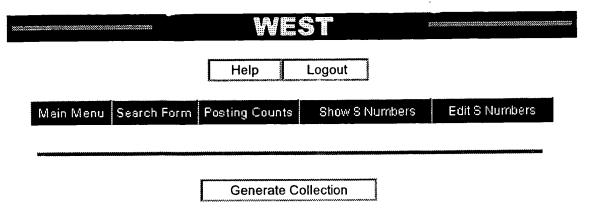


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EPAB	(((vob same mpeg\$2) and (audio same attribute\$3)) and quantiz\$6) and (sampling adj5 (frequenc\$3 or rate or value\$2))	0	<u>L13</u>
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USPT	(vob same mpeg\$2) and (audio same attribute\$3)	18	<u>L9</u>
USPT	(vob same mpeg\$2) and (attribute\$3)	22	<u>L8</u>
USPT	(vob same mpeg\$2) same (attribute\$3)	1	<u>L7</u>
USPT	5140437.dwku.	1	<u>L6</u>
USPT	5400077. <b>d</b> wku.	1	<u>L5</u>
USPT	(vob same mpeg\$2) same (audio same attribute\$3)	1	<u>L4</u>
USPT	(vob same mpeg\$2) same audio	19	<u>L3</u>
USPT	vob same mpeg\$2	29	<u>L2</u>
USPT	vob	133	<u>L1</u>



# Search Results - Record(s) 1 through 10 of 11 returned.

1. Document ID: US 6016295 A

Entry 1 of 11

File: USPT

Jan 18, 2000

US-PAT-NO: 6016295

DOCUMENT-IDENTIFIER: US 6016295 A

TITLE: Audio system which not only enables the application of the surround sytem standard to special playback uses but also easily maintains compatibility with a surround system DATE-ISSUED: January 18, 2000

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Endoh; Kenjiro

Tokyo

N/A N/A

CA

JPX

Todd; Craig Campbell

San Fransico

N/A

N/A

US-CL-CURRENT: 369/49; 369/48, 369/58, 369/59

Full Title Citation Front Review Classification Date Reference Claims KMC Image

2. Document ID: US 6014495 A

Entry 2 of 11

File: USPT

Jan 11, 2000

DOCUMENT-IDENTIFIER: US 6014495 A

TITLE: Information record medium, apparatus for recording the

same and apparatus for reproducing the same

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moriyama; Yoshiaki	Tsurugashima	N/A	N/A	JPX
Takahashi; Tokihiro	Tokorozawa	N/A	N/A	JPX
Ishii; Hidehiro	Tokorozawa	N/A	N/A	JPX
Kurashina; Hiroyuki	Tokorozawa	N/A	N/A	JPX
Sawabe; Takao	Tokyo-to	N/A	N/A	JPX
Yoshio; Junichi	Tokorozawa	N/A	N/A	JPX

US-CL-CURRENT: 386/96; 360/20, 369/124\_08, 369/124\_09, 369/48, 386/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image

3. Document ID: US 5999698 A

Entry 3 of 11

File: USPT

Dec 7, 1999

US-PAT-NO: 5999698

DOCUMENT-IDENTIFIER: US 5999698 A

TITLE: Multiangle block reproduction system

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Nakai; Masatoshi Kawasaki N/A N/A JPX
Hagio; Takeshi Yokohama N/A N/A JPX

US-CL-CURRENT: 386/125; 386/126

Full Title Citation Front Review Classification Date Reference Claims KWIC Image

4. Document ID: US 5963704 A

Entry 4 of 11

File: USPT

Oct 5, 1999

DOCUMENT-IDENTIFIER: US 5963704 A

TITLE: Recording medium, apparatus and method for recording

data on the recording medium, apparatus and method for

reproducing data from the recording medium

DATE-ISSUED: October 5, 1999

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mimura; Hideki	Yokohama	N/A	N/A	JPX
Kurano; Tomoaki	Yokohama	N/A	N/A	JPX
Kikuchi; Shinichi	Yokohama	N/A	N/A	JPX
Taira; Kazuhiko	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 386/95; 386/126

# Full Title Citation Front Review Classification Date Reference Claims KMC Image

5. Document ID: US 5949955 A

Entry 5 of 11

File: USPT

Sep 7, 1999

US-PAT-NO: 5949955

DOCUMENT-IDENTIFIER: US 5949955 A

TITLE: Recording medium apparatus and method of recording and

reproducing data with management information

DATE-ISSUED: September 7, 1999

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Nakai; Masatoshi Kawasaki N/A N/A JPX

US-CL-CURRENT: 386/106; 386/126

# Full Title Citation Front Review Classification Date Reference Claims KMC Image

6. Document ID: US 5930450 A

Entry 6 of 11

File: USPT

Jul 27, 1999

US-PAT-NO: 5930450

DOCUMENT-IDENTIFIER: US 5930450 A

TITLE: Recording medium, apparatus and method of recording data on the same, and apparatus and method of reproducing data from

the recording medium

DATE-ISSUED: July 27, 1999

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Fujita; Kazuya Kawasaki N/A N/A JPX

US-CL-CURRENT: 386/95; 386/104

# Full Title Citation Front Review Classification Date Reference Claims KWC Image

7. Document ID: US 5902115 A

Entry 7 of 11

File: USPT

May 11, 1999

US-PAT-NO: 5902115

DOCUMENT-IDENTIFIER: US 5902115 A

TITLE: Recording medium on which attribute information on the playback data is recorded together with the playback data and a system for appropriately reproducing the playback data using the attribute information

the attribute information DATE-ISSUED: May 11, 1999

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Katayama; Yoshitaka Yokohama N/A N/A JPX

US-CL-CURRENT: 434/307A; 360/135, 386/106, 386/97, 434/307R,

434/318

### Full Title Citation Front Review Classification Date Reference Claims KWC Image

8. Document ID: US 5896358 A

Entry 8 of 11

File: USPT Apr 20, 1999

US-PAT-NO: 5896358

DOCUMENT-IDENTIFIER: US 5896358 A

TITLE: Audio system which not only enables the application of the surround system standard to special playback uses but also easily maintains compatibility with a surround system

DATE-ISSUED: April 20, 1999

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Endoh; Kenjiro Tokyo N/A N/A JPX Todd; Craig Campbell San Francisco CA N/A N/A

US-CL-CURRENT: 369/89; 369/275.3, 369/48, 369/49

# Full Title Citation Front Review Classification Date Reference Claims KMC Image

9. Document ID: US 5870523 A

Entry 9 of 11

File: USPT

Feb 9, 1999

DOCUMENT-IDENTIFIER: US 5870523 A

TITLE: Recording medium on which a data containing navigation data is recorded, a method and apparatus for reproducing a data according to navigation data, a method and apparatus for recording a data containing navigation data on a recording DATE-ISSUED: February 9, 1999

#### INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kikuchi; Shinichi	Yokohama	N/A	N/A	JPX
Arafune; Takeo	Yokohama	N/A	N/A	JPX
Kitamura; Tetsuya	Komae	N/A	N/A	JPX
Mimura; Hideki	Yokohama	N/A	N/A	JPX '
Taira; Kazuhiko	Yokohama	N/A	N/A	JPX
Tamada; Yuzo	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 386/95; 386/111, 386/125, 386/98

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Full Title Citation Front	Review	Classification	Date	Reference	Claims	KWC	lmage

10. Document ID: US 5805537 A

Entry 10 of 11

File: USPT

Sep 8, 1998

US-PAT-NO: 5805537

DOCUMENT-IDENTIFIER: US 5805537 A

TITLE: Information record medium, apparatus for recording the

same and apparatus for reproducing the same

DATE-ISSUED: September 8, 1998

### INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Kaoru	Tsurugashima	N/A	N/A	JPX
Takahashi; Tokihiro	Tokorozawa	N/A	N/A	JPX
Ishii; Hidehiro	Tokorozawa	N/A	N/A	JPX
Nakamura; Hiroshi	Tokorozawa	N/A	N/A	JPX
Noguchi; Tadashi	Tokorozawa	N/A	N/A	JPX
Sawabe; Takao	Tokyo-to	N/A	N/A	JPX
Yoshio; Junichi	Tokorozawa	N/A	N/A	JPX

US-CL-CURRENT: 369/32; 369/275.3, 369/4, 369/49, 369/84

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Image |

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Term	Documents
VOB.USPT.	132
VOBS.USPT.	53
MPEG\$2	0
MPEG.USPT.	4576
MPEGAE.USPT.	1
MPEGAV.USPT.	1
MPEGB.USPT.	1
MPEGH.USPT.	1
MPEGI.USPT.	10
MPEGII.USPT.	7
(((VOB SAME MPEG\$2) AND (AUDIO SAME ATTRIBUTE\$3)) AND QUANTIZ\$6).USPT.	11

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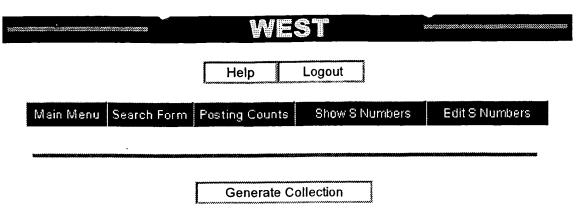
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11. Document ID: US 5745643 A

Entry 11 of 11

File: USPT

Apr 28, 1998

US-PAT-NO: 5745643

DOCUMENT-IDENTIFIER: US 5745643 A

TITLE: System for and method of reproducing playback data appropriately by the use of attribute information on the

playback data

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Mishina; Masamitsu

Sagamihara

N/A

N/A

JPX

US-CL-CURRENT: 386/106; 386/109

Full Title Citation Front Review Classification Date Reference Claims KMC Image

Generate Collection

Term	Documents
VOB.USPT.	132
VOBS.USPT.	53
MPEG\$2	0
MPEG.USPT.	4576
MPEGAE.USPT.	1
MPEGAV.USPT.	1
MPEGB.USPT.	1
MPEGH.USPT.	1
MPEGI.USPT.	10
MPEGII.USPT.	7
(((VOB SAME MPEG\$2) AND (AUDIO SAME ATTRIBUTE\$3)) AND QUANTIZ\$6).USPT.	11

There are more results than shown above, click here to view the entire set.

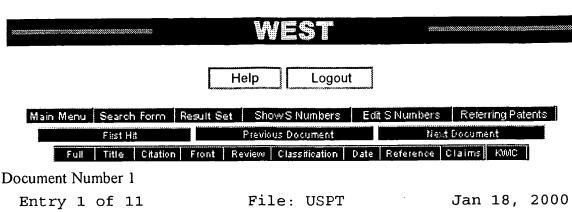
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Display Format: CIT

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DOCUMENT-IDENTIFIER: US 6016295 A

TITLE: Audio system which not only enables the application of the surround sytem standard to special playback uses but also easily maintains compatibility with a surround system

DATE-ISSUED: January 18, 2000

### INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Endoh; Kenjiro	Tokyo	N/A	N/A	JPX
Todd; Craig Campbell	San Fransico	CA	N/A	N/A

### ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE
Kabushiki Kaisha Toshiba	Kawasaki	N/A	N/A	JPX	03

APPL-NO: 9/ 247618

DATE FILED: February 10, 1999

PARENT-CASE:

This is a of application Ser. No. 08/910,255, filed Aug. 13, 1997, U.S. Pat. No. 5,896,358 which, in turn, was a file wrapper continuation of application Ser. No. 08/688,762 filed Jul. 31, 1996 abandoned.

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: JP 7-197797

FOREIGN-PRIORITY-APPL-DATE: August 2, 1995

INT-CL: [6] G11B 7/00

US-CL-ISSUED: 369/49; 369/48, 369/58, 369/59 US-CL-CURRENT: 369/49; 369/48, 369/58, 369/59 FIELD-OF-SEARCH: 369/49, 369/47, 369/48, 369/50, 369/54, 369/58, 369/59, 369/60, 369/83, 369/84, 360/15, 360/13, 360/14.1, 360/48, 360/51, 84/609, 84/625, 84/634

REF-CITED:

### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4583132</u>	April 1986	Nakano	N/A
4598324	July 1986	Efron	N/A
<u>4779252</u>	October 1988	Custers	N/A
4876719	October 1989	Nakagami	N/A
5177798	January 1993	Ohsawa	N/A
5289451	February 1994	Ashinuma	N/A
5400433	March 1995	Davis	N/A
5420839	May 1995	Tateishi	N/A
<u>5428184</u>	June 1995	Park	N/A
5465240	November 1995	Mankovitz	N/A
5519681	May 1996	Maeda	N/A
<u>5543925</u>	August 1996	Timmermans	N/A
<u>5546368</u>	August 1996	Lee	N/A
5561649	October 1996	Lee	N/A
5602922	February 1997	Lee	N/A
<u>5630006</u>	May 1997	Hirayama	N/A
5652824	July 1997	Hirayama	N/A
5675695	October 1997	Hirayama	N/A
5703997	December 1997	Kitamura	N/A
<u>5715356</u>	February 1998	Hirayama	N/A
5721720	February 1998	Kikuchi	N/A
5729650	March 1998	Hirayama	N/A
5732185	March 1998	Hirayama	N/A
5742731	April 1998	Hirayama	N/A
<u>5751892</u>	May 1998	Hirayama	N/A
<u>5758007</u>	May 1998	Kitamura	N/A
5778136	July 1998	Hirayama	N/A
5778142	July 1998	Taira	N/A
<u>5784519</u>	July 1998	Hirayama	N/A
5793872	August 1998	Hirayama	N/A
5815633	September 1998	Hirayama	N/A
5819003	October 1998	Hirayama	N/A
<u>5832175</u>	November 1998	Hirayama	N/A
5845046	December 1998	Hirayama	N/A
5848216	February 1998	Kaneshige	N/A
<u>5870523</u>	February 1999	Kikuchi	N/A

### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
498617	August 1992	EP
0 626 689 A2	November 1994	EP
677842	October 1995	EP
93923665	August 1996	EP
7130102	May 1995	JP
7176175	July 1995	JP
WO 88/08190	October 1988	WO
WO 91/19407	December 1991	WO

#### OTHER PUBLICATIONS

Patent Abstracts of Japan, Publication No. Hei 8-123488, Date of Publication of Application -- May 17, 1996. ITU-R Recommendations BS.775-1, Multichannel Stereophonic Sound System With and Without Accompanying Picture, 1993; 1994 BS Series Volume; pp. 257-266. Patent Abstracts of Japan, Publication No. 5-234257, Date of Publication of Application -- Sep. 10, 1993. Patent Abstracts of Japan, Publication No. 07221717 A, Date of Publication of Application--Aug. 18, 1995. Patent Abstracts of Japan, Publication No. 6-44686, Date of Publication of Application -- Feb. 18, 1994. Patent Abstracts of Japan, Publication No. 08065169 A, Date of Publication of Application--Aug. 3, 1996. Patent Abstracts of Japan, Publication No. 08077711 A, Date of Publication of Application--Mar. 22, 1996. "Digital Audio and Ancillary Data Services for an Advanced Television Service" Document T3/186, U.S. Advanced Television Systems Committee, Technology Group on Distribution, Feb. 3, 1992, pp. 1-12.

ART-UNIT: 273

PRIMARY-EXAMINER: Edun; Muhammad

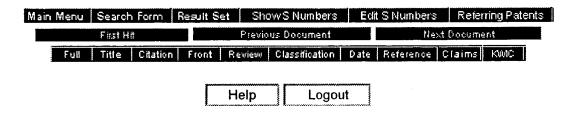
ATTY-AGENT-FIRM: Pillsbury Madison & Sutro, LLP

#### ABSTRACT:

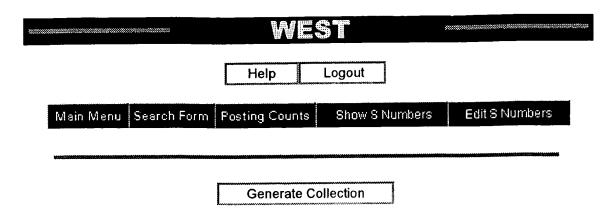
When an audio stream signal is transmitted, the bit stream information for determining the surround mode and special-use mode, including karaoke use, is sensed from the signal at a mode sensor. After the surround mode has been sensed, the audio data is converted by a decoder into a front left, front center, and front right main audio signals and a back left and back right surround audio signals in the surround mode, which are converted into analog signals and outputted to the corresponding speakers. When the special-use mode has been sensed, by using the central main audio signal of the front left, front center, and front right main audio signals and back left and back right surround audio signals converted at the decoder, a normally used first-type accompanying sound selectively made unused, for example, guide melody, is generated. In addition, by using the

back left and back right surround audio signals, a normally unused second-type accompanying sound selectively used, for example, vocals, is generated. The first-and second-type accompanying sounds, together with the front left and front right main audio signals, are reproduced selectively. Consequently, a system that transmits surround sound using a plurality of channels can maintain compatibility with a surround system easily, when the plurality of channels are applied to special use, such as karaoke, not being restricted to surround use.

75 Claims, 78 Drawing figures



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Search Results - Record(s) 1 through 1 of 1 returned.				
1. Document ID: US 5140437 A Entry 1 of 1 File: USPT	Aug 18, 1992			
US-PAT-NO: 5140437  DOCUMENT-IDENTIFIER: US 5140437 A  TITLE: Recording/reproducing compressed data on a rotatable record medium in which at least one intraframe code signal and at least (n-1) interframe code signals are recorded in each track				
Full   Title   Citation   Front   Review   Classification   Date   Reference   Cla	ims   KWC   Image			
	ims KWC Image			
Full   Title   Citation   Front   Review   Classification   Date   Reference   Cla	ims KMC Image  Documents			
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Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: US 5745643 A

Entry 1 of 1

File: USPT

Apr 28, 1998

US-PAT-NO: 5745643

DOCUMENT-IDENTIFIER: US 5745643 A

TITLE: System for and method of reproducing playback data appropriately by the use of attribute information on the

playback data

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

N/A

ZIP CODE COUNTRY

Mishina; Masamitsu

Sagamihara

N/A

JPX

US-CL-CURRENT: 386/106; 386/109

Full Title Citation Front Review Classification Date Reference Claims KWC Image

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Term	Documents
VOB.USPT.	132
VOBS.USPT.	53
MPEG\$2	0
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MPEGB.USPT.	1
MPEGH.USPT.	1
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MPEGII.USPT.	7
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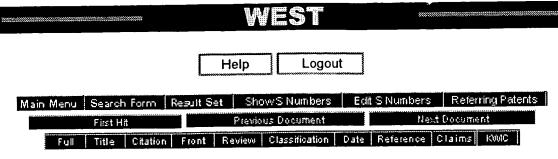
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Document Number 1

Entry 1 of 1

File: USPT

Apr 28, 1998

DOCUMENT-IDENTIFIER: US 5745643 A TITLE: System for and method of reproducing playback data appropriately by the use of attribute information on the playback data

#### DEPR:

The video attribute, audio stream attribute, and sub-picture stream attribute written in FIG. 22 will be described in detail. In the video attribute (VTSM.sub. --V.sub.-- ATR) of the video object set (VTSM.sub.-- VOBS) 95 for VTSM and the video attribute (VTS.sub.-- V.sub.--ATR) of the video object set (VTST.sub. = VOBS) 96 for the video title set title (VTSTT), the same attribute information as the video attribute (VMGM.sub. -- V.sub. --ATR) of the video object (VMGN.sub. -- VOBS) for the video manager menu already explained with reference to FIGS. 8, 9, 10A, and 10B is written. Specifically, in each of the video attributes (VTSM.sub.-- V.sub.-- ATR) and (VTS.sub.-- V.sub.-- ATR), as shown in FIG. 8, bit number b8 to bit number b15 are allocated to the compression mode, frame rate, display aspect ratio, and display mode, which are the video attributes of the video object set 76 for the video manager menu (VMGM), and bit number b0 to bit number b7 are left empty for reservation for later use. When "00" is written in bit numbers b15, b14, this means the menu video data has been compressed in the video compression mode on the basis of the MPEG-1 standard; and when "01" is written in bit numbers b15, b14, this means the menu video data has been compressed in the video compression mode on the basis of the MPEG-2 standard. The other numbers are reserved for later use. When "00" is written in bit numbers b13, b12, this means that the menu video data has a frame rate of 29.27/s at which 29.27 frames are reproduced every second. Specifically, when "00" is written in bit numbers b13, b12, this means that the menu video data is TV-system video data according to the NTSC scheme and has a frame rate at which a single frame is drawn at a horizontal frequency of 60 Hz using 525 scanning lines. When "01" is written in bit numbers b13, b12, this means that the menu video data has a frame rate of 25/s at which 25 frames are reproduced every second. Specifically, this means that the menu video

second. Specifically, this means that the canu video data is TV-system video data according to the PAL scheme and has a frame rate at which a single frame is drawn at a frequency of 50 Hz using 625 scanning lines. The other numerals in bit numbers b13, b15 are reserved for later use.

